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REQUEST FOR ACCESS

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Applicants:

Worrell Organum

Sir,

Request is hereby respectfully made for access to the file history of the following abandoned application referred to in U.S. patent number 5,266,683 or printed application number _____.

Respectfully submitted,
Chris Besant
CHRIS BESANT

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FILE INFORMATION UNIT



US05266683A

United States Patent [19]

Oppermann et al.

[11] Patent Number: 5,266,683

[45] Date of Patent: * Nov. 30, 1993

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[54] OSTEOGENIC PROTEINS

[75] Inventors: Hermann Oppermann, Medway; Eagle Ozkaynak, Milford; Thangavel Kuberanampath, Medway; David C. Rueger, Hopkinton; Roy H. L. Pang, Medway, all of Mass.

[73] Assignee: Stryker Corporation, Kalamazoo, Mich.

[*] Notice: The portion of the term of this patent subsequent to Nov. 2, 2010 has been disclaimed.

[21] Appl. No.: 841,646

[22] Filed: Feb. 21, 1992

Related U.S. Application Data

[60] Continuation-in-part of Ser. No. 827,052, Jan. 28, 1992, Pat. No. 5,250,302, Ser. No. 579,865, Oct. 7, 1990, Pat. No. 5,108,753, Ser. No. 621,849, Dec. 4, 1990, abandoned, Ser. No. 621,988, Dec. 4, 1990, abandoned, Ser. No. 810,560, Dec. 20, 1991, abandoned, Ser. No. 569,920, Aug. 20, 1990, abandoned, Ser. No. 600,024, Oct. 18, 1990, abandoned, Ser. No. 599,543, Oct. 18, 1990, abandoned, Ser. No. 616,374, Nov. 21, 1990, Pat. No. 5,162,114, and Ser. No. 483,913, Feb. 22, 1990, Pat. No. 5,171,374, said Ser. No. 827,052, is a division of Ser. No. 179,406, Apr. 8, 1988, Pat. No. 4,968,590, said Ser. No. 579,865, is a division of Ser. No. 179,406, Apr. 8, 1988, said Ser. No. 621,849, is a division of Ser. No. 232,630, Aug. 15, 1988, abandoned, which is a continuation-in-part of Ser. No. 179,406, Aug. 15, 1988, said Ser. No. 621,988, is a division of Ser. No. 315,342, Feb. 23, 1989, Pat. No. 5,011,691, which is a continuation-in-part of Ser. No. 232,630, Feb. 23, 1989, said Ser. No. 810,560, is a continuation of Ser. No. 660,162, Feb. 22, 1991, abandoned, which is a continuation of Ser. No. 422,699, Oct. 17, 1989, abandoned, which is a continuation-in-part of Ser. No. 315,342, Oct. 17, 1989, said Ser. No. 369,920, is a continuation-in-part of Ser. No. 422,699, Oct. 17, 1989, and Ser. No. 483,913, Oct. 17, 1989, which is a continuation-in-part of Ser. No. 422,613, Oct. 17, 1989, Pat. No. 4,975,526, which is a continuation-in-part of Ser. No. 315,342, Oct. 17, 1989, said Ser. No. 600,024, is a continuation-in-part of Ser. No. 369,920, Oct. 17, 1989, said Ser. No. 599,543, is a continuation-in-part of Ser. No. 569,920, Oct. 17, 1989.

[51] Int. Cl. 37/02; C07K 5/00; C07K 7/00; C07K 15/00

[52] U.S. Cl. 530/326; 530/327; 530/328; 530/350; 530/395; 530/840

[58] Field of Search 530/326, 327, 328, 395, 530/840, 300, 350

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[57] ABSTRACT

Disclosed are (1) osteogenic devices comprising a matrix containing substantially pure natural-sourced mammalian osteogenic protein; (2) DNA and amino acid sequences for novel polypeptide chains useful as sub-units of dimeric osteogenic proteins; (3) vectors carrying sequences encoding these novel polypeptide chains and host cells transfected with these vectors; (4) methods of producing these polypeptide chains using recombinant DNA technology; (5) antibodies specific for these novel polypeptide chains; (6) osteogenic devices comprising these recombinantly produced proteins in association with an appropriate carrier matrix; and (7) methods of using the osteogenic devices to mimic the natural course of endochondral bone formation in mammals.

58 Claims, 47 Drawing Sheets